January 5, 2010 8:02:16 AM

Item ID:

D117-762-011

Accept



Setup Start



Revision ID:

Item Name: Skidtube

Start Date:

Required Date: 18/01/2010 Req'd Qty: 1.00

05/01/2010 Start Qty: 1.00



Cast Item ID:

🔐 ustomer:

Reference:

Approvals:

Date: 10-1-05 Tooling:

Date:

Start



QC:

SPC (Y/N):

Date:

Stop

Sequence ID/ **Work Center ID** Operation Description Set Up/ **Run Hours** Draw Number Rev.

Plan Code

Qty

Reject Accept Qty

Run

Reject Number Stamp

Draw Nbr

Revision Nbr

N/A

Rev A

100

Document Control

DOCUMENT CONTROL

Memo

Photocopy bluefile & type labels per PPP D117-762-011

0.00

0.00

110

Pick Kit

0.00

Packaging Packaging

Memo

0.00

120

OC4-100% Inspect kits for completeness

0.00

Memo

Quality Control

Dart Aerospace Ltd	Dar	t Aer	ospa	ice	Ltd
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Dail AC	Uspace	Liu							
W/O:			V	ORK ORDER CHANGE	S			· <u> </u>	
DATE	STEP	PROCEDURE CHANGE				Date	Qty	Approvat Chief Eng / Prod Mgr	Approval QC Inspector
		:							
70,	9.3								
Part No	:	PAR #:	Fault Ca	tegory:	NCR: Yes	No DQ	A :	Date: _	
	R	esolution:	Disposit	on:	QA: N/C	losed:		Date: _	
NCR:			WORK OR	DER NON-CONFORMAN	NCE (NC	R)			
		Description of NC		Corrective Action Section	ı B	Verific	ation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Date	& Secti		Chief Eng	QC Inspector
			1						

NCK:	WOTH STIDET HON SOME STIMANSE (NOT									
		Description of NC	Description of NC Corrective Action Section B							
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C	Approval Chief Eng	Approval QC Inspector		
			·							
· · · · · ·										



January 5, 2010 8:02:16 AM

Item ID:

D117-762-011

Accept

Setup Start



Stop



Revision ID:

Item Name: Skidtube

Required Date: 18/01/2010

05/01/2010

Start Qty: 1.00 Paq'd Qty: 1.00

Cuss Item ID: Castomer:



Reference:

Start Date:

Date:

Tooling:

Date:

Draw

Rev.

Run Start



Approvals:

Process Plan:

SPC (Y/N):

Date:

Sequence ID/ Work Center ID Operation Description Set Up/ **Run Hours**

Draw Number Plan Qty Code

Reject Accept Qty

Reject Number Stamp

130

Packaging

Packaging

Packaging

Memo

0.00

0.00

Identify and pack for shipping as per PPP D117-762-011

Location:

PPP Rev:

Memo

140

QC

QC21- Final Inspection - Work Order Release

0.00

0.00

10/02/18 75/ MF 10-2-18

Quality Control

Dart Aerospace Ltd

W/O:			WORK ORDER CHANGES							
DATE	STEP	F	PROCEDURE CHANGE				Approval ^r Chief Eng / Prod Mgr	Approval QC Inspector		
								:		
		·								
Part No	:	PAR #:	Fault Category:	NCR: Ye	s No DQ	A:	Date:			
	R	esolution:	Disposition:	QA: N/C	Closed:		Date:			

NCR:		,	WORK ORDER NON-CONFORMANCE (NCR)							
		Description of NC	cription of NC Corrective Action Section B							
DATE	STEP	Section A	Initial Action Description Chief Eng Chief Eng		Sign & Date	Verification Section C	Approval Chief Eng	Approval QC Inspector		
						1)		
		7.7						,		
					i					
		I entries								

Picklist Print

January 5, 2010 8:02:21 AM

Work Order ID: 54879

Parent Item:

Comments:

D117-762-011

Parent Item Name:

Skidtube

IPP RevD: per chg002 DD 09.12.17 verified by:EC

Start Date: 05/01/2010

Required Date: 18/01/2010

Start Qty: 1.00

Required Qty: 1.00

Date

Issued

Component Item ID/ Item Name	Replacement Item ID	,	Bin Item	Primary Location	Last Location	Route Seq ID	Unit to	Qty on Hand	Remaining Qty To Pick	Qty Issued
D117-762-041		Manufactured	No			110	Each	0.0000	1.0000	

Replacement Skidtube

AN3C4A

Purchased

No

110

Each

1,195.000 8.0000

BOLT	

Warehouse	Loc Qty	Loc Code	
Location			
Main Warehouse			
ST	1195		
112314	13		
112720	12		
112724	3		
112829	I		
112991	2		
113121	64		
113226	586		My 322 C
113359	14		·
113422	500		

Page 1

Status

Dart Aerospace Ltd

W/O:			WORK ORDER CHANGES							
DATE	STEP		PRO	OCEDURE CHANGE	В	Ву	Date	Qty	Approval* Chief Eng / Prod Mgr	Approva QC Inspector
		=								
	1			- Warner (c		_	****			
Part No	=		PAR #:	Fault Category:	NCR:	Yes	No DQA	\:	Date:	
				Disposition:						

NCR: WORK ORDER NON-CONFORMANCE (NCR)								
	T	Description of NC	otion of NC Corrective Action Section B Verification A					
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C		
	1							
				•				
	1		1				i	ľ

January 5, 2010 8:02:21 AM

Work Order ID: 54879

Parent Item:

D117-762-011

Parent Item Name:

Skidtube

Comments:

IPP RevD: per chg002 DD 09.12.17 verified by:EC



Start Date: 05/01/2010

Required Date: 18/01/2010

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name

Replacement wifg/ Item ID

Purch

Primary Item Location Last Location

Route Seq ID Unit of Qty on Measur Hand

Remaining

Qty To Pick Issued

Status Issued

AN960C10L

Purchased

No

110

Each

416.0000 8.0000



NA61149 C- 332A

	Warehouse	<u>Le</u>	c Qty	Loc Code		
	Location					
	OFFSHORE					
	FG		100			
	103585		100			
	Main Warehouse					
	ST		316			
	112116		156			
	112612		160		,	
ı		110	Each	12.0000	2.0000 ~	

D3512-1

Wearplate

Manufactured

No

Loc Qty

12 12

// 14/01/22

Warehouse Location Main Warehouse ST 54452

Loc Code

Dart Aerospace	Ltd	
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W/O:			WORK ORDER	CHANGES					
DATE	STEP	PR	OCEDURE CHANGE	В	у	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
						,			
· · · · · · · · · · · · · · · · · · ·									
Part No) :	PAR #:	Fault Category:	NCR:	Yes N	lo DQ	A:	Date:	· · · · · · · · · · · · · · · · · · ·
	Reso	lution:	Disposition:	QA: N	C Clo	sed:		Date:	
NCR:			WORK ORDER NON-COM	NFORMANCE (VCR)				

NCR:		WORK ORDER NON-CONFORMANCE (NCR)									
		Description of NC	Description of NC Corrective Action Section B				Description of NC Corrective Action Section B		Verification	A	
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspecto			
		(A)		· · · · · · · · · · · · · · · · · · ·							
			1		+		ļ	ľ			

January 5, 2010 8:02:21 AM

Work Order ID: 54879

Parent Item:

D117-762-011

Parent Item Name:

Skidtube

Comments:

IPP RevD: per chg002 DD 09.12.17 verified by:EC

Start Date: 05/01/2010 Start Qty: 1.00

Required Date: 18/01/2010

Required Qty: 1.00

Component Item ID/ Item Name

Replacement | 23.1g/ Item ID

urch

Purchased

Item Location

No

Last Location

Route Seq ID

110

110

Unit of Measure

Each

Qty on Hand

42.0000

Remaining Qty To Pick Issued

2.0000

Date Status Issued

AN6-52A

Bolt

Warehouse	Loc Qty	Loc Code	
Location			
Main Warehouse			
ST	42		
110183	3		
111661	9		
112314	30		

MS21042L6

Purchased

No

Each

484.0000 2.0000



/////20

Nut

Warehouse	Loc Qty	Loc Code	
Location			
Main Warehouse			
ST	484		
105077	22		
110002	5		
111548	8		
111578	400		
112492	49		M112472

Dart Aerospac	e Ltd
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W/O:			WORK ORDER CHANGES						
DATE	STEP	PF	OCEDURE CHANGE	В	y E	ate	Qty	Approval • Chief Eng / Prod Mgr	Approval QC Inspector
								,	
Part No		PAR #:	Fault Category:	NCR: \	es No	DQ	\ :	Date:	
	R	esolution:	Disposition:	QA: N/	C Close	ed:		Date:	· 100 de inc

	WORK ORDER NON-CONFORMANCE (NCR)										
	Description of NC	Description of NC Corrective Action Section B									
STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	Approval QC Inspector				
					:						
<u> </u>											
					}						

	STEP	STEP Description of NC	STEP Description of NC Section A Initial	STEP Description of NC Section A Initial Action Description	STEP Description of NC Section A Initial Action Description Sign &	STEP Description of NC Section A Initial Action Description Sign & Section C	STEP Description of NC Section A Initial Action Description Sign & Section C Chief Eng				

January 5, 2010 8:02:21 AM

Work Order ID: 54879

Parent Item:

D117-762-011

Parent Item Name:

Skidtube

Comments:

IPP RevD: per chg002 DD 09.12.17 verified by:EC



Start Date: 05/01/2010

Start Qty: 1.00

Remaining

Qty To Pick

Required Date: 18/01/2010

Required Qty: 1.00

Issued

Status

Item Name D3864-1

Component Item ID/

Replacement Max Item ID

Pusch

Manufactured

Bin Primary Item Location

No

Last Location

Route Seq ID 110

Measure Hand Each

Unit of 'Tuty on

32.0000

4.0000



Bushing

Warehouse	Loc Oty	Loc Code
Location		
Main Warehouse		
ST	32	
47351	32	

Issued

Dart Aerospace Ltd

W/O:			WO	RK ORDER CHANG	ES				
DATE	STEP	PRO	PROCEDURE CHANGE			Date	Qty	Approval App	Approval QC Inspector
						<u>.</u>			
Part No		PAR #:							
	R	esolution:	Disposition	l:	QA: N/C	Closed:		Date: _	
NCR:			WORK ORDE	R NON-CONFORMA	NCE (NC	R)			
DATE	OTED	Description of NC		Corrective Action Section	on B	Verifi	cation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Date	& Secti	ion C	Chief Eng	QC Inspector
				· · ·					:
				,					

Page 9 of 10

5.0 PARTS LIST

5.1 D117-762-011 Skidtube Parts List

Item	Qty -011	Qty -041	Part Number	Description
	X		D117-762-011	SKIDTUBE INSTALLATION
	1	Х	D117-762-041	REPLACEMENT SKIDTUBE
	•		<u> </u>	
1		1	D3582-041	SKIDTUBE ASSEMBLY
<u> </u>		•	30002 0 11	0.0010001.0001
2	2		**1121-51002	SKID SHOE
3	2		**1121-51102	CLAMPING RING
4	8		**LN9380M8X45	HEXAGON BOLT
5	8		**LN9023A8-1.4544.9	LOCKING WASHER
6	8		**LN9025-0815K	WASHER (OR LN9025-0815L)
		-		
10		1	*D2965	CAP
11		2	***AELS-1032-225	INSERT
12		2	*AN3C5A	BOLT
13		2	*AN960C10L	WASHER
20A		1	*D3508-9	WEARPLATE
20B		1	*D3558-9	GASKET
21A		1	*D3508-3	WEARPLATE
21B		1	*D3558-3	GASKET
22A		1	*D3508-11	WEARPLATE
22B		1	*D3558-11	GASKET
23A	1	1	*D3508-13	WEARPLATE
23B		1	*D3558-13	GASKET
24		36	*AELS-1032-130	INSERT
25	-8	28	*AN3C4A	BOLT
26	8 /	28	*AN960C10L	WASHER
27	2		D3512-1 /	WEARPLATE
30		2	*AELS-1032-130	INSERT
31		2	*AN4-4A	BOLT
32		2	*AN960JD416L	WASHER
40		2	*D3492-049	PLUG ASSEMBLY
41		2	***NAS1611-016	O-RING
42		2	*D3492-051	PLUG ASSEMBLY
43		2	***NAS1611-015	O-RING
44		6	*D3492-053	PLUG ASSEMBLY
45		6	***NAS1611-012	O-RING
<u> </u>	<u> </u>		ANIA 540	DOLT.
50	2	 	AN4-51A	BOLT
51	4	-	D2972	BUSHING
52	2		MS21042L4	NUT (OR MS21042-4)

^{*} PART IS INCLUDED WITH D3582-041 SKIDTUBE ASSEMBLY

** TO BE SUPPLIED BY CUSTOMER, LISTED AS REFERENCE ONLY

*** DENOTES PART IS INCLUDED WITH ASSEMBLY ABOVE

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REFERENCE OF

5.1 D117-762-011 SKIDTUBE PARTS LIST (IIN-D117-762) 32.8 D117-762-011 SKIDTUBE PARTS LIST (ICA-D117-762)

8

ITEM	Qty -011	Qty -041	PART NUMBER	DESCRIPTION
	х		D117-762-011	SKIDTUBE INSTALLATION
	1	Х	D117-762-041	REPLACEMENT SKIDTUBE

<u>IS:</u>

	Ϊ	, ,	
50	2 /	AN6-52A	BOLT
51	4	D3864-1	BUSHING
52	2	MS21042L6*	NUT (OR MS21042-6)

WAS:

50	2	AN4-51A	BOLT
51	4	D2972	BUSHING
52	2	MS21042L4	NUT (OR MS21042-4)

TO UPGRADE A D117-762-011 SKIDTUBE FROM CHG 001 TO CHG 002, THE FOLLOWING KIT CAN BE OBTAINED FROM DART:

Qty -041	PART NUMBER	DESCRIPTION	
Х	DSI 9435-011	GROUND HANDLING HARDWARE CHANGE	
2	AN6-52A	BOLT	
4	D3864-1	BUSHING	
2	MS21042L6	NUT (OR MS21042-6)	

DESIGN	PH	DART AEROSPACE USA, INC PORT HADLOCK, WA			
DRAWN	PH				
CHECKED	4	DRAWING NO.	REV. A		
MFG. APPR.	N/A	DSI 9435	SHEET 2 OF 2		
APPROVED	/Why	TITLE	SCALE		
DE APPR.	-111	GROUND HANDLING HARDWARE CHG NTS			
DATE 08.1	2.04	COPYRIGHT © 2008 BY DART AEROSPACE USA, INC THIS DOCUMENT IS PRIVATE AND CONFIDENTIA. AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OF COMED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT			